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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,737	07/24/2003		Koji Dairiki	0756-7176	8059
31780	7590	06/14/2006		EXAMINER	
ERIC ROB	INSON		GUERRERO, MARIA F		
PMB 955 21010 SOUTHBANK ST.			ART UNIT	PAPER NUMBER	
POTOMAC FALLS, VA 20165				2822	
				DATE MAILED: 06/14/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Antique Commence	10/625,737	DAIRIKI, KOJI					
Office Action Summary	Examiner	Art Unit					
	Maria Guerrero	2822					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed the mailing date of this communication.					
Status							
1) Responsive to communication(s) filed on 31 Ma	arch 2006						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-21 is/are pending in the application.							
4a) Of the above claim(s) <u>2,4,6,8,10 and 12-18</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1,3,5,7,9,11 and 19-21 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	• .						
10) The drawing(s) filed on is/are: a) acce		Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction	•	• •					
11) The oath or declaration is objected to by the Exa							
Priority under 35 U.S.C. § 119		·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
2.	have been received in Application have been received ity documents have been received the contract of the cont						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of	or the certified copies not receive	a.					
Attachment(s)							
) Notice of References Cited (PTO-892)	A) Theorem	(DTO 442)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	· · · · · · · · · · · · · · · · · · ·					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)					

DETAILED ACTION

1. This Office Action is in response to the Amendment filed March 31, 2006.

Status of Claims

2. Claims 1-21 are pending.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/970,908, filed on October 5, 2001.

Information Disclosure Statement

4. The information disclosure statement filed March 31, 2006 has been considered.

Election/Restrictions

5. Claims 2, 4, 6, 8, 10, and 12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on December 16, 2004. Claims 13-18 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 3, 5, 7, 9, 11 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakurai et al. (US 6,333,493) in view of Ballantine et al. (US 6,105,274).

Sakurai et al. discloses heating a treatment object by irradiating it through radiation from a lamp light source (halogen lamp) (col. 7, lines 8-15, col. 12, lines 65-67, col. 13, lines 1-3). Sakurai et al. teaches the radiation from the lamp light source being 10 or 20 seconds at a time and repeating several times (col. 1, lines 65-67, col. 2, lines 1-5, col. 8, lines 48-60, col. 9, lines 25-30, col. 11, lines 23-30, col. 13, lines 53-57, col.

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18, lines 20-35, col. 19, lines 5-18, col. 22, lines 13-35, col. 24, lines 23-37, col. 25, lines 5-10). Sakurai et al. shows the input voltage is controlled at an interval of 0.5 seconds so as to stabilize the temperature with the temperature set in advance by the control device (col. 9, lines 14-20). Sakurai et al. discloses turning off the lamp light source and cooling the object (Fig. 18, col. 7, lines 19-24, col. 10, lines 37-47).

Sakurai et al. does not specifically show the specific range as claimed. However, in the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

Sakurai et al. does not specifically show holding the treatment object in a processing chamber filled with a coolant, the supply of the coolant being kept during the radiation, the coolant being nitrogen or helium. However, Sakurai et al. discloses cooling the treatment object (col. 10, lines 37-47). In addition, Ballantine et al. is presented as evidence to show that holding the treatment object in a processing chamber filled with a coolant is conventional in the art. Ballantine et al. teaches holding the treatment object in a processing chamber filled with a coolant, the coolant being nitrogen or helium, and increasing or decreasing the amount of the coolant (Abstract, col. 2, lines 27-67, col. 3, lines 1-65, col. 4, lines 1-67, col. 5, lines 1-32, 50-63). Ballantine et al. also discloses keeping the supply of coolant while heating the treatment object (col. 3, col. 3, lines 62-67, col. 4, lines 25-67).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to recognize that the claimed range overlaps or lies inside the

range disclosed by Sakurai et al. and a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990). In addition, a prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a prima facie case of obviousness." In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to specify the step of applying a coolant to the treatment object and the coolant being nitrogen or helium as taught by Ballantine et al. in order to minimize the time that the object stays at undesirable temperatures (Ballantine et al., col. 3, lines 10-20).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1, 3, 5, 7, 9, 11 and 19-21 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-28 of copending Application No. 10/001,197. Although the conflicting claims are not identical, they are not patentably distinct from each other because the basic steps of heating by irradiating through radiation from a lamp light, cooling by applying a coolant, and the radiation from the lamp light source lasts 0.1 to 20 seconds are recited by claims 13-28 of copending Application No. 10/001,197.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

8. Claims 1 and 19 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 14 and 20 of U.S. Patent No. 6,759,313 (cited on IDS). Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 14 and 20 recite the basic steps of irradiating using a light source for 1 to 60 seconds (it is within the claimed range) and simultaneously cooling using nitrogen.

Response to Arguments

9. Applicant's arguments filed March 31, 2006 have been fully considered but they are not persuasive. Claims 1, 3, 5, 7, 9, 11 and 19-21 stand rejected because the amendment to the claims does not overcome the obviousness rejection based on the combination of Sakurai et al. and Ballantine et al. The obviousness-type double

patenting rejection based on copending Application No. 10/001,197. The obviousness rejection based on Moore et al. has been withdrawn.

- 10. Applicant argued that the prior art, either alone or in combination, does not teach or suggest all the feature of the independent claims as, as amended. However, the combination of Sakurai et al. and Ballantine et al. disclosed the claimed subject matter. Sakurai et al. discloses heating a treatment object by irradiating it through radiation from a lamp light source (halogen lamp) (col. 7, lines 8-15, col. 12, lines 65-67, col. 13, lines 1-3). Sakurai et al. teaches the radiation from the lamp light source being 10 or 20 seconds at a time and repeating several times (col. 1, lines 65-67, col. 2, lines 1-5, col. 8, lines 48-60, col. 9, lines 25-30, col. 11, lines 23-30, col. 13, lines 53-57, col. 18, lines 20-35, col. 19, lines 5-18, col. 22, lines 13-35, col. 24, lines 23-37, col. 25, lines 5-10). In addition, Ballantine et al. teaches holding the treatment object in a processing chamber filled with a coolant, the coolant being nitrogen or helium, and increasing or decreasing the amount of the coolant (Abstract, col. 2, lines 27-67, col. 3, lines 1-65, col. 4, lines 1-67, col. 5, lines 1-32, 50-63). Ballantine et al. also discloses keeping the supply of coolant while heating the treatment object (col. 3, col. 3, lines 62-67, col. 4, lines 25-67).
- 11. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

- 12. In addition, during examination, the claims must be interpreted as broadly as their terms reasonably allow. > In re American Academy of Science Tech Center, F.3d, 2004 WL 1067528 (Fed. Cir. May 13, 2004)(The USPTO uses a different standard for construing claims than that used by district courts; during examination the USPTO must give claims their broadest reasonable interpretation.) < This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. In re Zletz, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989) >; Chef America, Inc. v. Lamb-Weston, Inc., 358 F.3d 1371, 1372, 69 USPQ2d 1857 (Fed. Cir. 2004). Therefore, words in the claims have been given their plain meaning because applicant has failed to provide any special definition in the specification.
- 13. Furthermore, "the use of patents as references is not limited to what the patentees describe as their own inventions or to the problems with which they are concerned. They are part of the literature of the art, relevant for all they contain." In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006, 1009, 158 USPQ 275, 277 (CCPA 1968)). A reference may be relied upon for all that it would have reasonably suggested to one having ordinary skill the art, including nonpreferred embodiments. Merck & Co. v. Biocraft Laboratories, 874 F.2d 804, 10 USPQ2d 1843 (Fed. Cir.), cert. denied, 493 U.S. 975 (1989). See also Celeritas Technologies Ltd. v. Rockwell International Corp., 150 F.3d 1354, 1361, 47 USPQ2d 1516, 1522-23 (Fed. Cir.1998).

14. Finally, the transitional term "comprising", which is synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. See, e.g., > Invitrogen Corp. v. Biocrest Mfg., L.P., 327 F.3d 1364, 1368, 66 USPQ2d 1631, 1634 (Fed. Cir. 2003) ("The transition comprising' in a method claim indicates that the claim is open-ended and allows for additional steps."); < Genentech, Inc. v. Chiron Corp., 112 F.3d 495, 501, 42 USPQ2d 1608, 1613 (Fed. Cir. 1997) ("Comprising" is a term of art used in claim language which means that the named elements are essential, but other elements may be added and still form a construct within the scope of the claim.); Moleculon Research Corp. v. CBS, Inc., 793 F.2d 1261, 229 USPQ 805 (Fed. Cir. 1986); In re Baxter, 656 F.2d 679, 686, 210 USPQ 795, 803 (CCPA 1981); Ex parte Davis, 80 USPQ 448, 450 (Bd. App. 1948) ("comprising" leaves "the claim open for the inclusion of unspecified ingredients even in major amounts").

Conclusion

1.97(c) with the fee set forth in 37 CFR 1.17(p) on March 31, 2006 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS**MADE FINAL. See MPEP § 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 571-272-1837. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 2, 2006

MARIA F. GUERRERO PRIMARY EXAMINER